



EMC118A45SE

Low Noise preamplifier

Features:

- 1-18GHz Frequency Range
- Compensation long cable loss for EMI Measurement
- Improve system noise floor flatness
- High EMI performance
- High linearity LNA for EMI measurement
- High dynamic range
- Unconditionally Stable
- State-of-the-Art Technology



EMC Instruments corporation

Sales Partner:

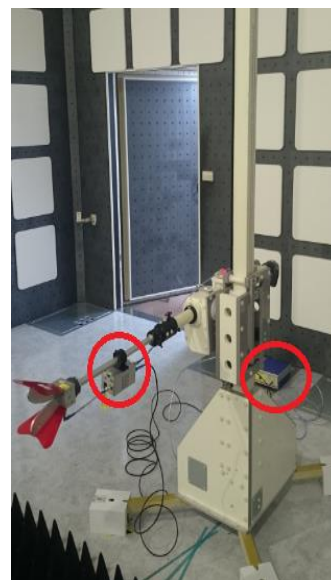
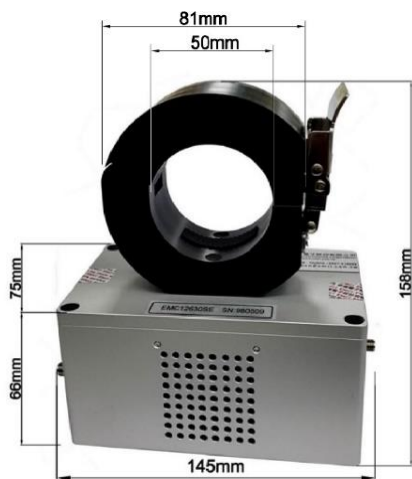


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Specification



Frequency Range	1GHz-18GHz
Noise Figure	3.5 - 8 dB max
Nominal Gain (dB min)	32 dB min @1 GHz and 45 dB min @18 GHz
Gain flatness	1-6 GHz @36dB @ +/- 3dB 6-12 GHz @40dB @ +/- 3dB 12-18 GHz @45dB @ +/- 3dB
P-1dB Compression Point	20 dBm min
Input VSWR/output VSWR	1.8:1 typical 2.5:1 max
Max RF input power	-15dBm@1GHz max ~ -25dBm@18GHz max
Power Requirements	110Vac/230Vac
In/Out connectors	50 ohm , SMA Female
Size	145mm*75mm*66mm(158mm) 217mm*330mm*100mm
Net Weight	628g(870g)/3000g
Built AC input main power grounding detect circuit	<p> R Y Y OPEN ○ ● ○ GROUND ○ ● ○ OPEN ○ ○ ● NEUTRAL ○ ○ ● OPEN LINE ○ ○ ○ LINE/GRD. ○ ○ ○ REVERSE ● ● ● LINE/NEU. ○ ○ ○ REVERSE ● ● ● CORRECT ○ ● ● CONTACT ○ ● ● SERVICE ● ● ● </p> <p>WARNING: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD REPLACE</p>

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Measurement condition 1:

RBW=1MHz

VBW=3MHz

Measurement Detector: Peak trace

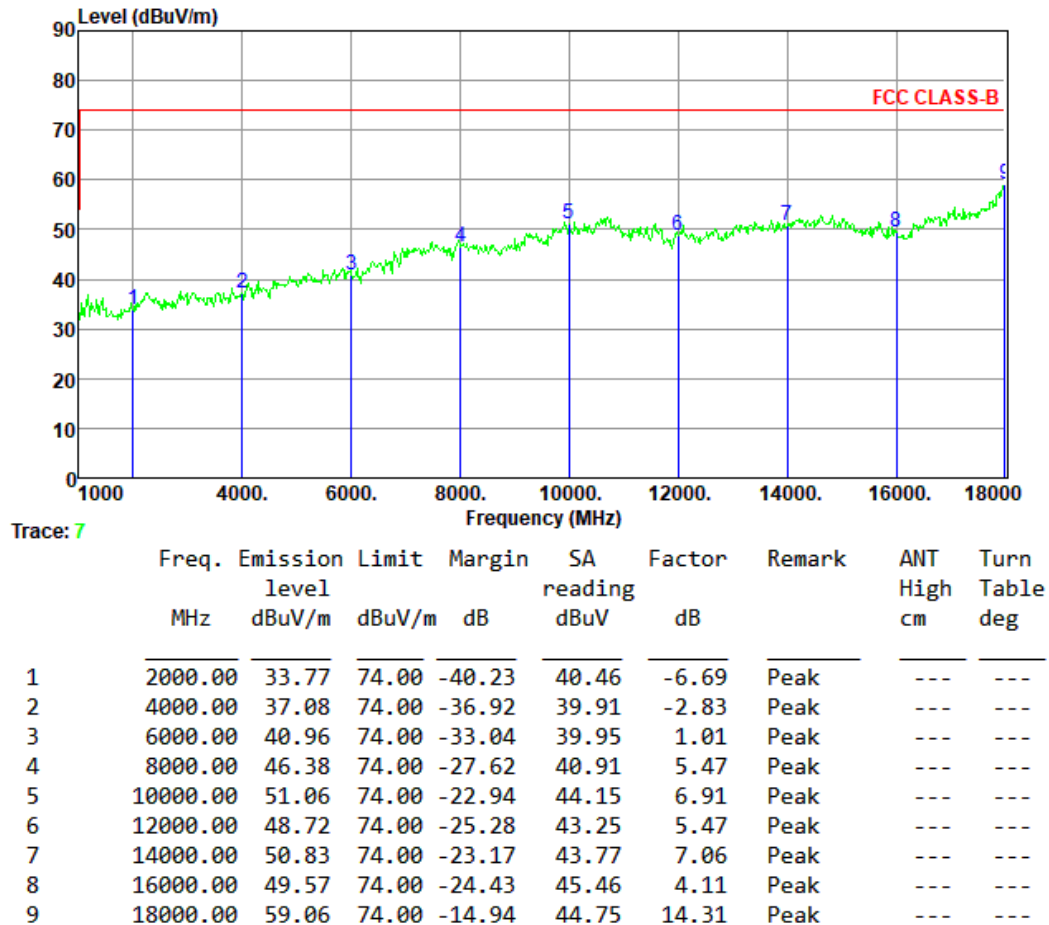
Measurement Limiter: Peak Limiter

Measurement antenna: Schwarzbeck BBHA9120D

Measurement Preamplifier; EMC118A45SE, Gain 47dB max

Measurement Distance: 3m

Measurement Cable: EMC104=8M+3M+1M



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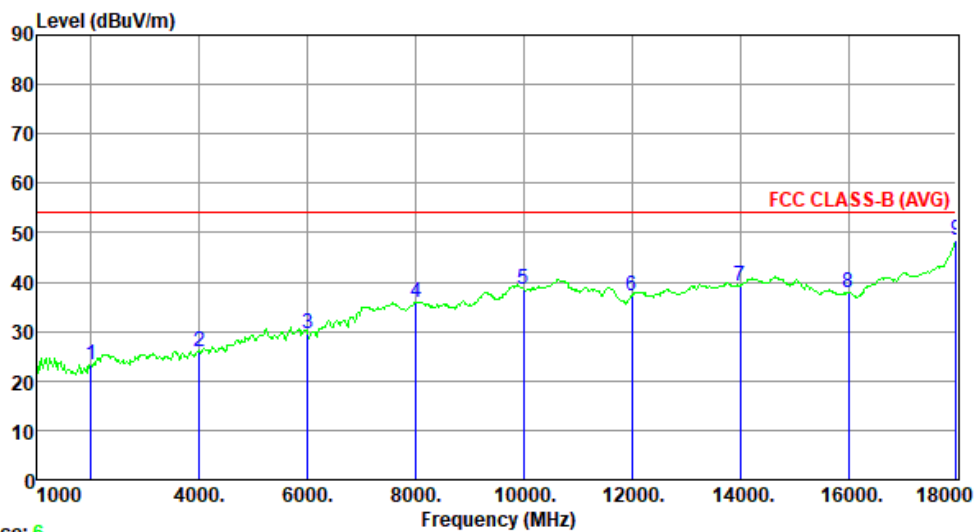


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RBW=1MHz
VBW=1kHz
Measurement Detector: Average trace
Measurement limiter: Average Limiter
Measurement antenna: Schwarzbeck BBHA9120D
Measurement Preamplifier; EMC118A45SE, Gain 47dB max
Measurement Distance: 3m
Measurement Cable: EMC104=8M+3M+1M



Trace: 6

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2000.00	23.14	54.00	-30.86	29.83	-6.69	Peak	---	---
2	4000.00	26.01	54.00	-27.99	28.84	-2.83	Peak	---	---
3	6000.00	29.47	54.00	-24.53	28.46	1.01	Peak	---	---
4	8000.00	35.98	54.00	-18.02	30.51	5.47	Peak	---	---
5	10000.00	38.58	54.00	-15.42	31.67	6.91	Peak	---	---
6	12000.00	37.34	54.00	-16.66	31.87	5.47	Peak	---	---
7	14000.00	39.25	54.00	-14.75	32.19	7.06	Peak	---	---
8	16000.00	37.83	54.00	-16.17	33.72	4.11	Peak	---	---
9	18000.00	48.39	54.00	-5.61	34.08	14.31	Peak	---	---

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Measurement condition 2:

Measurement antenna: ETS 3117(Blue trace),Schwazbeck BBHA9120D(Green trace)

Measurement Preamplifier: EMC118A45SE

Measurement cable : EMC107(Blue Trace) =7M+2.5M+1M,EMC104(Green trace)
=8M+3M+1M

Measurement Distance: 3m

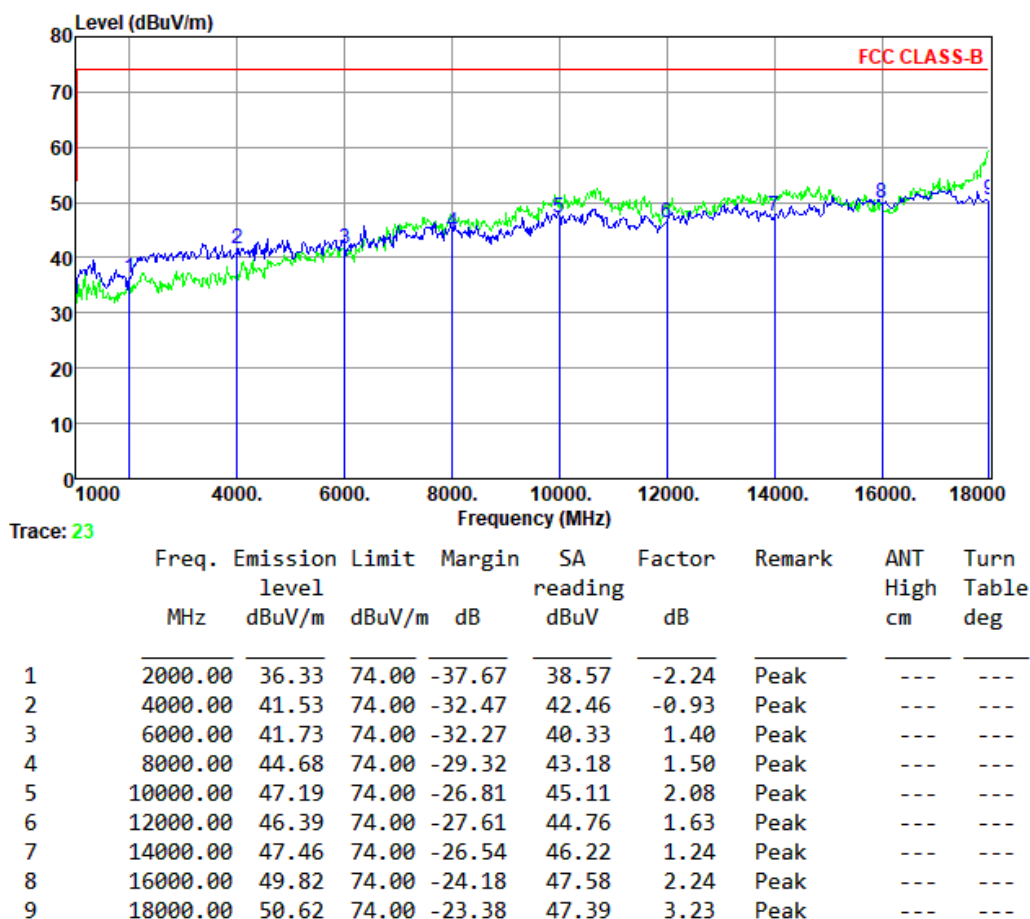
Measurement Detector: Peak Trace

RBW=1MHz

VBW=3MHz

Codition :ANT_ETS_3117
Humidity(%):65

Antenna Pol. :VERTICAL
Temp.(Degree C):25



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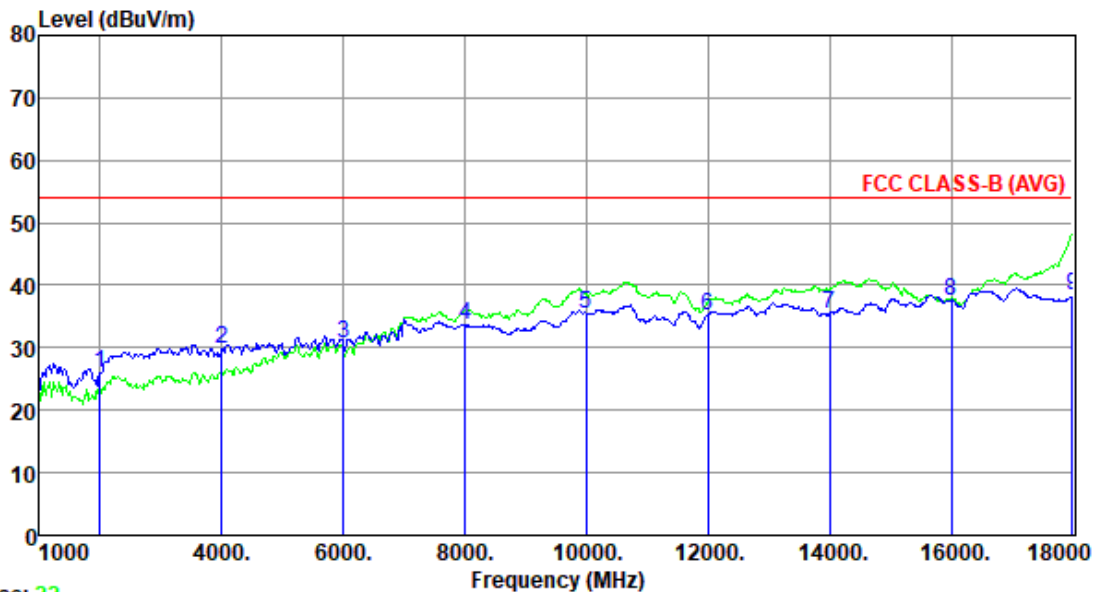


Measurement antenna: ETS 3117(Blue trace), Schwazbeck BBHA9120D(Green trace)
 Measurement Preamplifier: EMC118A45SE
 Measurement cable : EMC107(Blue Trace) =7M+2.5M+1M,EMC104(Green trace)
 =8M+3M+1M
 Measurement Distance: 3m
 Measurement Detector: Average Trace

RBW=1MHz
 VBW=1kHz

Codition :ANT_ETS_3117
 Humidity(%):65

Antenna Pol. :VERTICAL
 Temp.(Degree C):25



Trace: 22

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2000.00	26.02	54.00	-27.98	28.26	-2.24	Peak	---	---
2	4000.00	29.79	54.00	-24.21	30.72	-0.93	Peak	---	---
3	6000.00	30.59	54.00	-23.41	29.19	1.40	Peak	---	---
4	8000.00	33.62	54.00	-20.38	32.12	1.50	Peak	---	---
5	10000.00	35.46	54.00	-18.54	33.38	2.08	Peak	---	---
6	12000.00	35.25	54.00	-18.75	33.62	1.63	Peak	---	---
7	14000.00	35.54	54.00	-18.46	34.30	1.24	Peak	---	---
8	16000.00	37.61	54.00	-16.39	35.37	2.24	Peak	---	---
9	18000.00	38.27	54.00	-15.73	35.04	3.23	Peak	---	---

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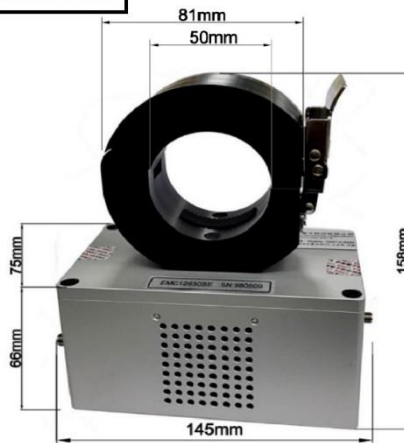
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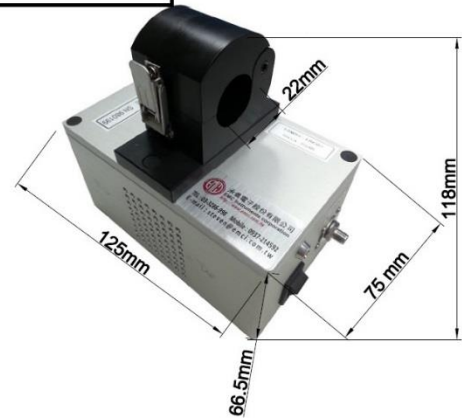
Ordering information:

EMC118A45SE-001/-002/-003

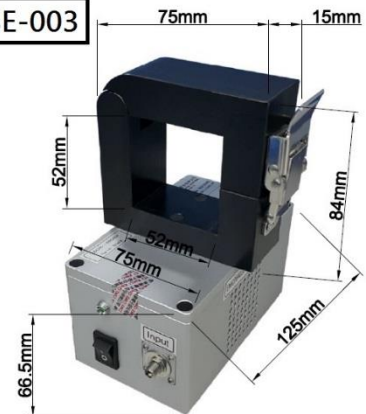
EMC118A45SE-001



EMC118A45SE-002



EMC118A45SE-003



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